

**Amendments to the Claims**

Claim Listing:

1.-6. (Canceled)

7. **(Previously presented)** A set of oligonucleotide probes, comprising a plurality of instances of a sequence of universal and designate nucleotides and/or nucleotide analogs ordered in a pattern, wherein the probes are displayed on a solid support and wherein

- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
- (b) the first string and the second string each comprise a universal nucleotide and/or nucleotide analog, and
- (c) the first segment and the second segment each comprise a designate nucleotide.

8. **(Previously presented)** A sequencing array, comprising

a substrate, and

a set of oligonucleotide probes disposed thereon, wherein each probe comprises an instance of a pattern of universal and designate nucleotides and/or nucleotide analogs such that the set comprises a plurality of instances of the pattern, and wherein

- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
- (b) the first string and the second string each comprise a universal nucleotide and/or nucleotide analog, and
- (c) the first segment and the second segment each comprise a designate nucleotide.

9. (Canceled)

10. **(Previously presented)** The array of claim 8, wherein the universal nucleotides and/or nucleotide analogs are selected from the group consisting of 5- nitroindole and 3-nitropyrrole.

11. **(Previously presented)** The array of claim 8, wherein each particular instance is associated with a particular location in the array.

12. **(Previously presented)** The array of claim 8, wherein each probe further comprises a sequence of at least two contiguous designate nucleotides and/or nucleotide analogs bound to an end of the pattern.

13. – 22. **(Canceled)**

23. **(Previously presented)** The probe of claim 20, wherein the universal and designate nucleotides and/or nucleotide analogs are linked by analogs of phosphodiester bonds.

24. **(Previously presented)** The probe of claim 20, wherein the universal and designate nucleotides and/or nucleotide analogs are peptide nucleic acids.

25. **(Previously presented)** An oligonucleotide probe, comprising a sequence of universal and designate nucleotides and/or nucleotide analogs ordered in a pattern, wherein the pattern comprises a root and an iterated unit, and wherein the length of the root is identical to the length of the iterated unit.

26. **(Previously presented)** An oligonucleotide probe of claim 25, wherein each iterated unit comprises a string of universal nucleotides and/or nucleotide analogs followed by one or more designate nucleotide and/or nucleotide analog.

27. **(Canceled)**

28. **(Previously presented)** The set of oligonucleotide probes of claim 7, wherein the designate nucleotides and/or nucleotide analogs comprise a purine or pyrimidine base, a ribose or deoxyribose sugar, and a phosphate group.

29. **(Previously presented)** The array of claim 8, wherein the designate nucleotides and/or nucleotide analogs comprise a purine or pyrimidine base, a ribose or deoxyribose sugar, and a phosphate group.

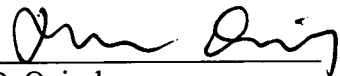
30. **(Canceled)**

**CONCLUSION**

In view of the foregoing amendments and remarks, Applicants submit that the pending claims are in condition for allowance. Early and favorable reconsideration is respectfully solicited. The Examiner may address any questions raised by this submission to the undersigned at 617-951-7000. Applicants hereby request that any fee required for timely consideration of this submission be charged to **Deposit Account No. 18-1945**.

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Respectfully submitted,

By 

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